

FIG. 1A-1

Murine	TREX	1	MTGYTMLRNGGV	ENG	QTCMLRWSNR	IRLTWLSFTLFI	LVFFFLIAHYVLTTLDEADEA
Human	TREX	1	MTGYTMLRNGG	AG	NGGQTCMLRWSNR	IRLTWLSFTLFV	LVFFFLIAHYVLTTLDEADEA
Murine	TREX	61	GKRIFGPRAG	SEL	CEVKHVLDLCRI	RESVSEELLQLEAKRQELNSEIAKLNKHEACKKS	
Human	TREX	61	GKRIFGPRV	ENEL	CEVKHVLDLCRI	RESVSEELLQLEAKRQELNSEIAKLNKHEACKKS	
Murine	TREX	121	IIENAKQD	LLQLKNVLS	QTEHSYKELMAQNQPKLSLPIRLLPEKDDAGLPPPKVTRGCR LH		
Human	TREX	121	IIENAKQD	LLQLKNVLS	QTEHSYKELMAQNQPKLSLPIRLLPEKDDAGLPPPKVTRGCR LH		
Murine	TREX	181	NCFDYSRCPLT	SGFPVYVYDSQ	QFAFGSYLDPLVKQAFQATVRANVYVTENAAIACLYV		
Human	TREX	181	NCFDYSRCPLT	SGFPVYVYDSQ	QVEFGSYLDPLVKQAFQATVRANVYVTENADIACLYVI		
Murine	TREX	241	LVGEMQEPT	VLRLPAD	LEKQLFSLPHWRTDGHNVII	INLSRKSDTQNLLYNVSTGRH-VAQ	
Human	TREX	241	LVGEMQEPT	VLRLPAD	LEKQLFSLPHWRTDGHNVII	INLSRKSDTQNLLYNVSTGRAMVAQ	
Murine	TREX	300	STLVAAQYR	AGFDLVVSP	LHAMSEPNFMEIPPOVPVKRKYLFTFQGEKIESLRSSLQEA		
Human	TREX	301	STFYITVQYR	PGFDLVVSP	LHAMSEPNFMEIPPOVPVKRKYLFTFQGEKIESLRSSLQEA		
Murine	TREX	360	RSFEEEMEGD	PPADYDDRI	IAATLKAVQDSKLDQVLVEFTCKNQPKPSLPTWALCGERED		
Human	TREX	361	RSFEEEMEGD	PPADYDDRI	IAATLKAVQDSKLDQVLVEFTCKNQPKPSLPTWALCGERED		
Murine	TREX	420	RLELLKLSTF	ALIITPGDPRIL	ISSGCATRLFEALEVGAVPVVLGEQVQLPYHDMLOWNE		
Human	TREX	421	RLELLKLSTF	ALIITPGDPRIV	ISSGCATRLFEALEVGAVPVVLGEQVQLPYQDMLQWNE		
Murine	TREX	480	AALVVPKPRV	TEVHFLLRSLSDS	DLLAMRRQGRFLWETYFS	STADSI	FNFTVLAMIRTRI QI
Human	TREX	481	AALVVPKPRV	TEVHFLLRSLSDS	DLLAMRRQGRFLWETYFS	STADSI	FNFTVLAMIRTRI QI

FIG. 1A-2

Murine	TREX	540	PAAPIREEVAAEIPHRSGKAAGTDPNMADNGDLDLGPVETETPPYASPKYLRNFTLTVTDC
Human	TREX	541	PAAPIREEAAAEIPHRSGKAAGTDPNMADNGDLDLGPVETETPPYASPRYLRNFTLTVTDF
Murine	TREX	600	YRCWNSAPGRFHLFPHTPDPVLPSEAKFLSGTGFRPIGGAGGSGKEFQAALGGNVQR
Human	TREX	601	YRSWNCAPGPFHLFPHTPDPVLPSEAKFLSGTGFRPIGGAGGSGKEFQAALGGNVPR
Murine	TREX	660	EQFTVVMLTYEREEVLMNSLERLNGLPYLNKVVVWVNSPKLPSEDLLWPDIGVPIMVVRT
Human	TREX	661	EQFTVVMLTYEREEVLMNSLERLNGLPYLNKVVVWVNSPKLPSEDLLWPDIGVPIMVVRT
Murine	TREX	720	EKNSLNNRFLPWNEIETEAILLSIDDDAHLRHDEIMFGFWWREARDRIVGFPGRYHAWDI
Human	TREX	721	EKNSLNNRFLPWNEIETEAILLSIDDDAHLRHDEIMFGFRVWREARDRIVGFPGRYHAWDI
Murine	TREX	780	PHQSWLYNSNYSCELSMWLTGAFFHKYYAYLYSYVMPQAIRDMVDEYINCEDIAMNFLV
Human	TREX	781	PHQSWLYNSNYSCELSMWLTGAFFHKYYAYLYSYVMPQAIRDMVDEYINCEDIAMNFLV
Murine	TREX	840	SHITRKPPIKVTSRWTFRCPCGCPQALSHDDSHFHERHKCINFFVKVGYGMPLLYTQFRVD
Human	TREX	841	SHITRKPPIKVTSRWTFRCPCGCPQALSHDDSHFHERHKCINFFVKVGYGMPLLYTQFRVD
Murine	TREX	900	SVLFKTRLPHDKTKCFKI
Human	TREX	901	SVLFKTRLPHDKTKCFKI

FIG. 1B

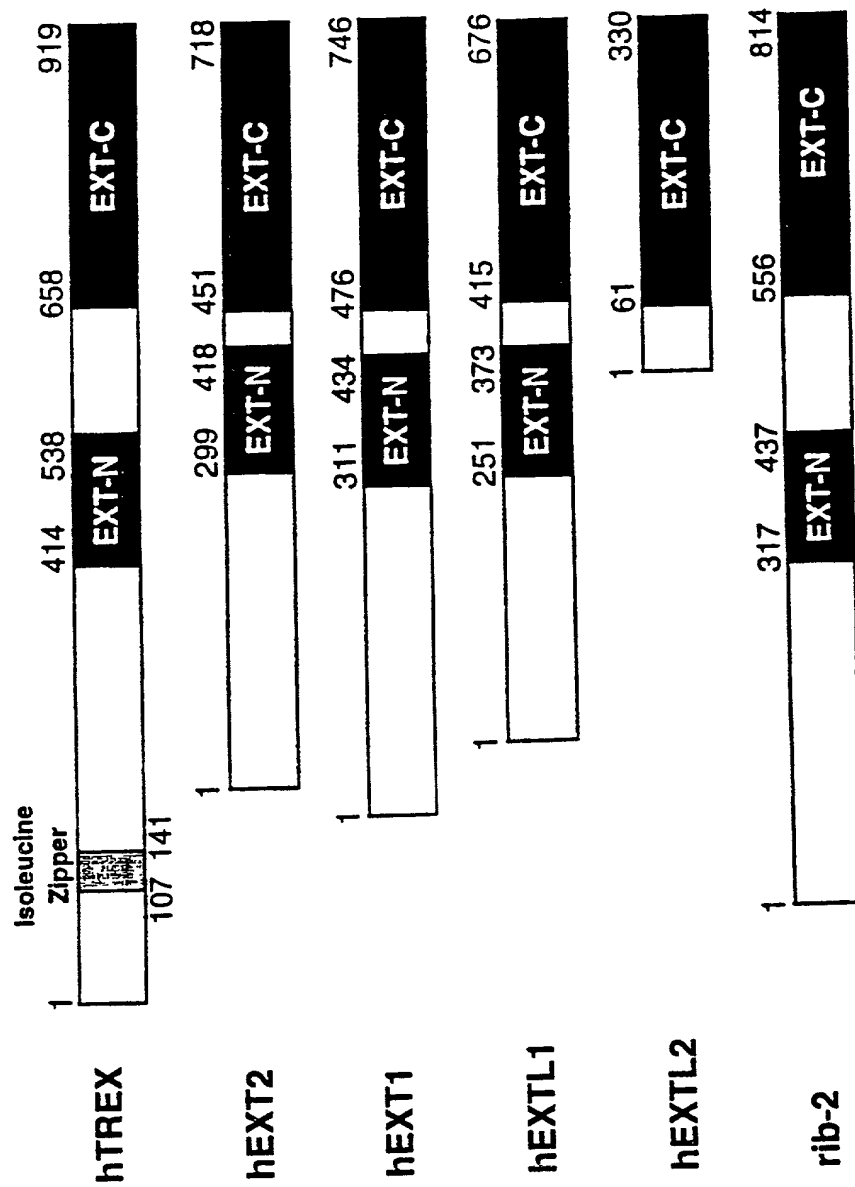


FIG. 1C

hTREX	414	LGGE-----REDRLLEIKLSHKAIIITPGDPRRVISSQCATRLFEALVVGAVFWLGEQVQLEFYQDMLQ
hEXT2	299	RCCHK-----HQVFDYPQVIOETEGVVL--RGARL-----GQA-VLSDVLOAGCVPWVIADSYIIPFSEVLD
hEXT1	311	RCDRDNTYEYKVDYREMHNAITFGVLP--RGRRL-----GSF-RELEALONACVPPVMTSNGWELPFSEVIN
hEXTL1	251	RCEQDPGPGQT-QROETTPNATPCCHIS--GHRPE---AAS-RELOALONACGQIEVLLSPRWELPFSEVID
rib-2	317	KCSQENCSLERR-N-QLIGSSHKA-----FILPSEMFFQDFFHSSDGLGQIPHILSNSQLLPPFQDLID
hTREX	478	WNEAALAVKPRVTEHFLDRLSDSDLELRRROGREFLWTVPTPTADSIENFNVIMTRTIT
hEXT2	358	WKRA SVVPEEKMSDVYSILQOSIPQROTEEMQCARWFWEAYFOSIKATALALIOIENDRI
hEXT1	374	WNOAVIGDERLLLOIPSTIRSIHQDKLNLFOCTQELWEAVESSEVEKTVLTFEITQDRI
hEXTL1	313	WTKANIVADERLRPLQVLAALCEMSPARVIALROCTQELINDAVPSSVEKVIHTTTEVIODRI
rib-2	377	WRRRTYRLPLARLPEAHFIVGFEISDMLIEVRVGVGLFYETLADRHLLARSLLAALRYKL

FIG. 1D

hTrex	658	VPREQFVAVMEL	-----MEREEVIMNSERLNGLE	YENAVVAMNSP	KLPSDDLWADI	---GVRIMVVRTEK
hEXT2	451	PQSQGTALVLE	-----MDVESFRVITEVSKVPS	SKLLAVMNNQ	KNPDESLWPKI	---RVLKAVRTAE
hEXT1	476	PPSK-RTAVI	HAHTPLV	QSOPV	KLVA	AAKSOYCAQ
hEXTL1	415	DEGR-ESALIW	-VGPP	---GQPP	KLQAVAGSOHCAQL	LLASNE-RPLPS
hEXTL2	61	STMDS	TLIMQ	-----KMR	TDLLKLENHYQAVEN	HNHVVAMNN
rib-2	556	RQREQF	IVMLLE	-----VEK	DAVITGALERLHQL	BMENKLLVAMNNV
hTrex	723	NSLNRR	FLBMNE	REDEAL	ILSIDD	-----AHR
hEXT2	517	NKLSNRR	FLBMNE	REDEAL	ILSIDD	-----IIM
hEXT1	544	KVMSRR	FLBMNE	REDEAL	ILSIDD	-----TQSH
hEXTL1	477	KV-SD	BYVPS	STPR	IDAII	SLDARSS
hEXTL2	129	NRMRNR	LQVFP	EL	ETNN	VMVDD
rib-2	620	NNNNRR	FLBMNE	REDEAL	ILSIDD	-----ID
hTrex	791	YS	---CPL	SMVL	GAAPYH	-----KVA
hEXT2	586	W	---TNEV	SMVL	GAAPYH	-----KFN
hEXT1	612	W	---TNDY	SMVL	GAAPYH	-----KTH
hEXTL1	544	R	---TNEF	SMVL	GAAPYH	-----RMT
hEXTL2	201	GSGNGDQY	SMVL	GAAPYH	-----LE	---LFO
rib-2	686	HT	---CQMS	IL	ITGA	ILH
hTrex	859	CPGC	---POAL	S	---HDD	SHEHER
hEXT2	654	CPGC	TAIDGLS	---LDQ	THMVER	SE
hEXT1	680	ETMMQTSRAS	-RWAL	PDH	FAQ	OS
hEXTL1	612	EAAP	PLAPG	PPR	PKPP	---APAP
hEXTL2	272	-LEKETNSQY	SGMWHRAE	HALQ	RSYG	INKLVNI
rib-2	754	CHTC	---TESLY	---KEGT	HEK	HEE

FIG. 1E-1

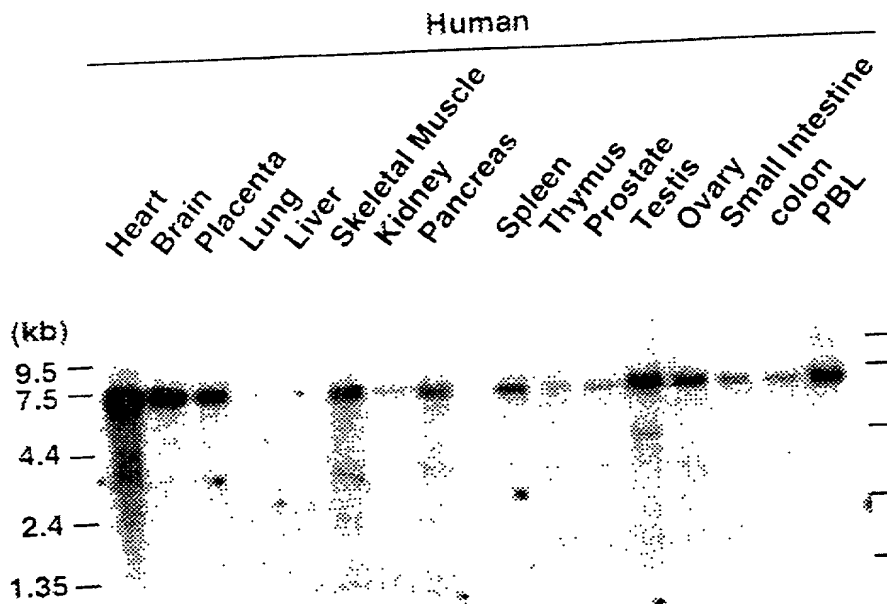


FIG. 1E-2

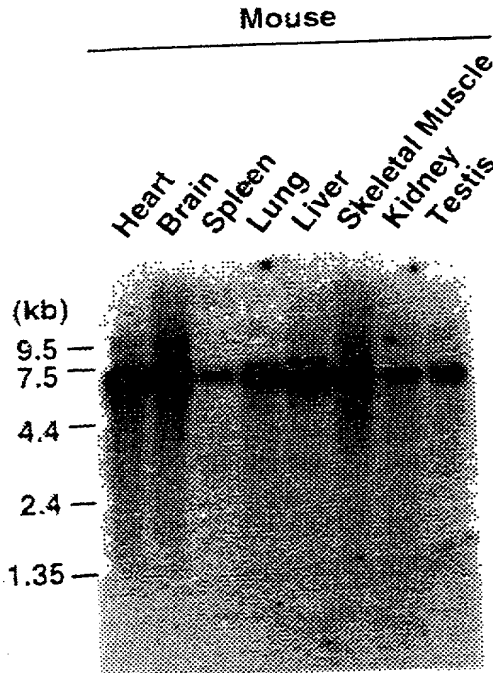


FIG. 1F

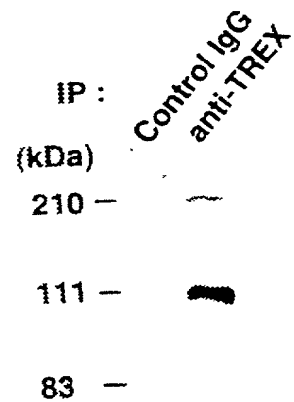


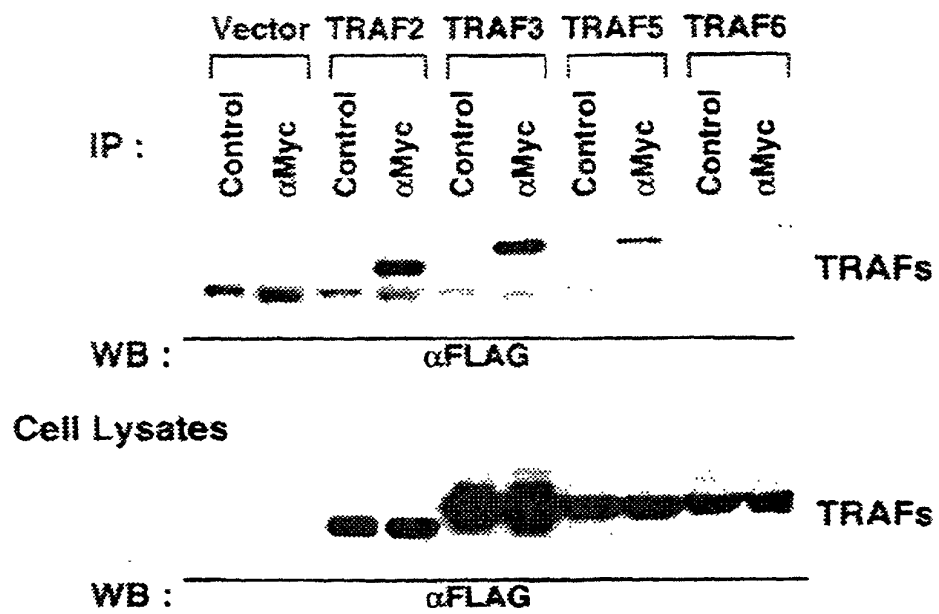
FIG. 2A *In vivo* binding

FIG. 2B

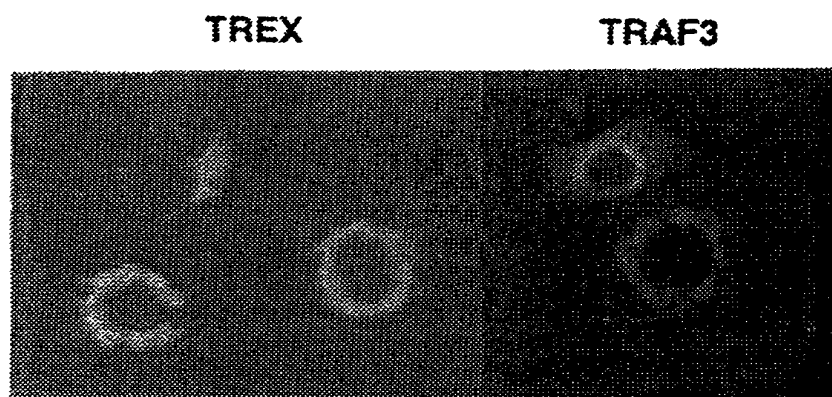


FIG. 3

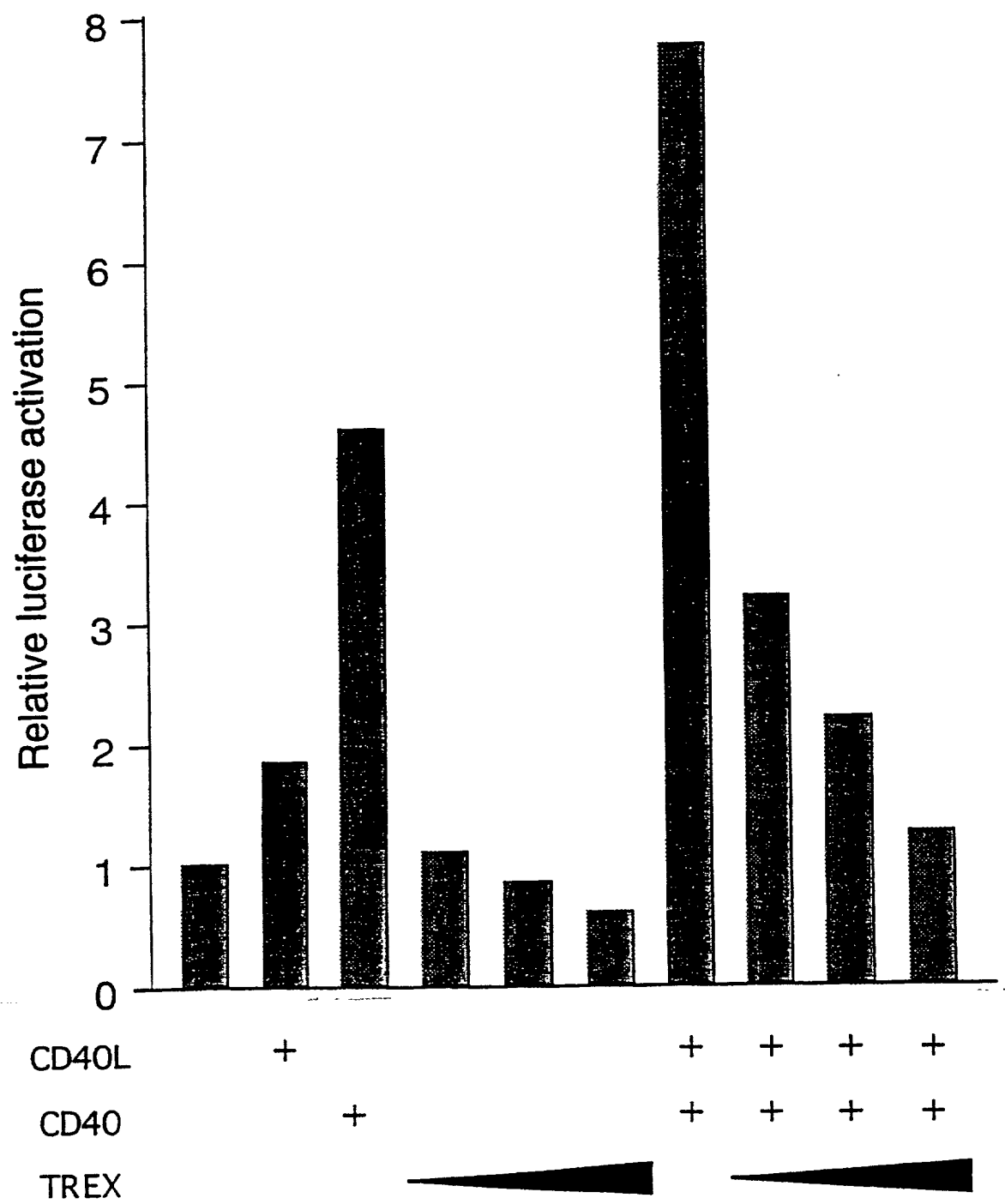
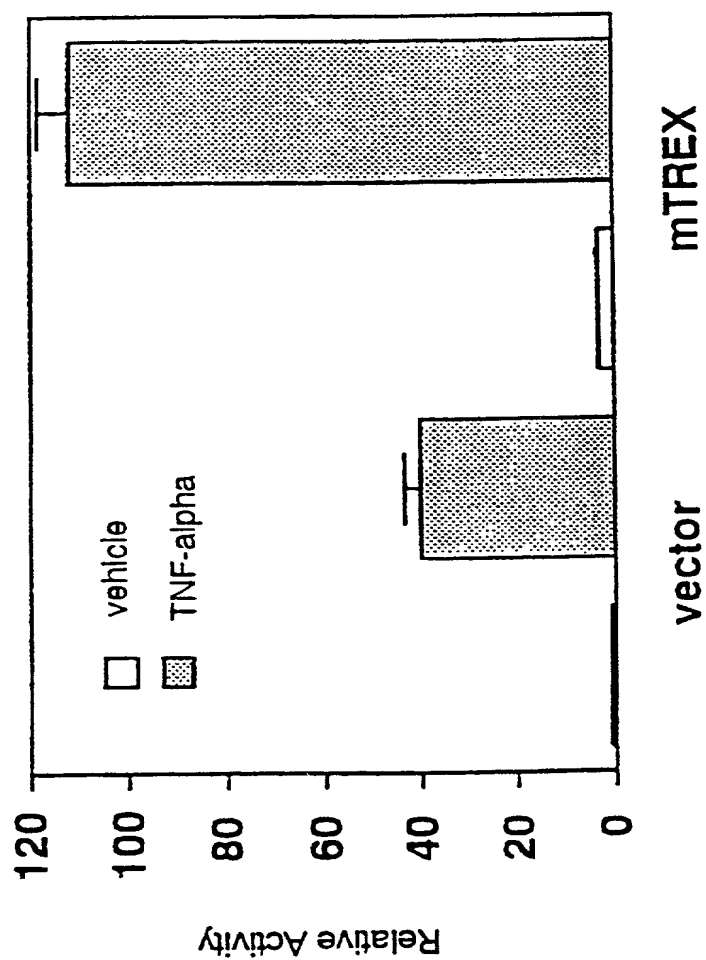




FIG. 4

Effect of mTREX on TNF-alpha-induced  
NF-kappaB activation in HEK 293 cells



n=3 980707

FIG. 5B

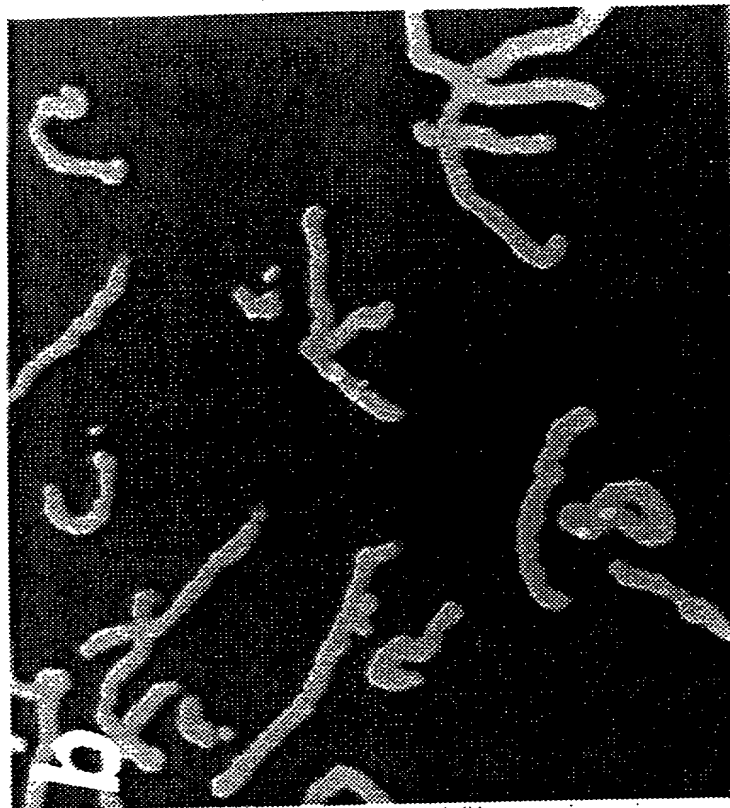


FIG. 5A

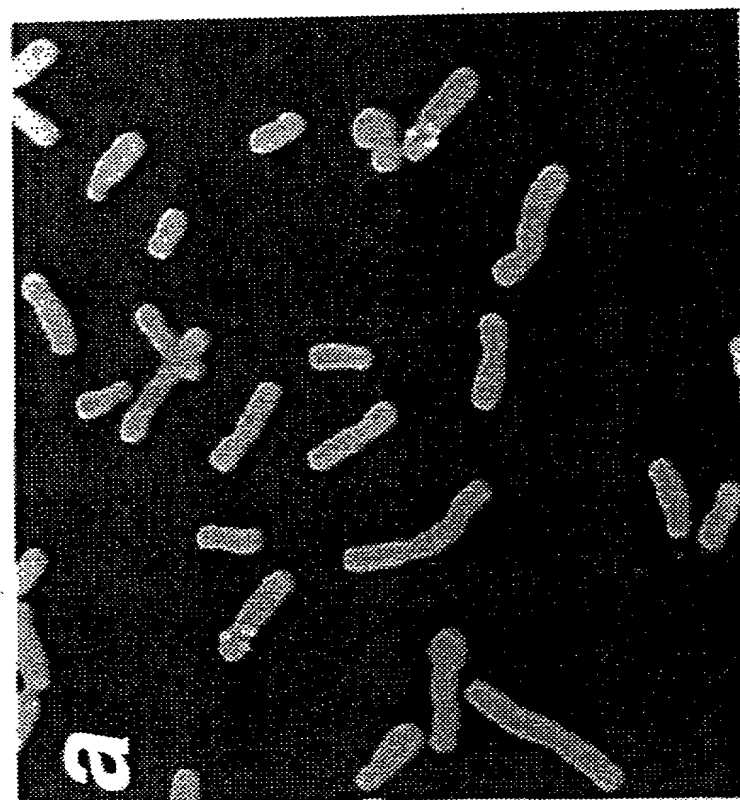


FIG. 6

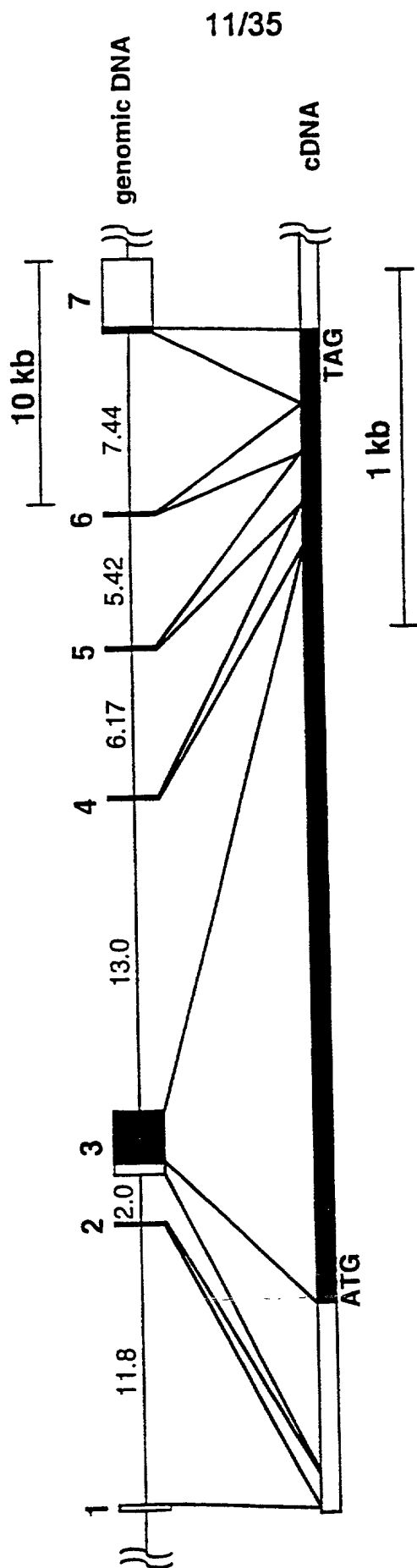


FIG. 7A-1

cctgatcgtt	ggtagtggca	tggaggacgg	ggctggcatt	tcagactgcc	agctgttttt
accagccgct	gcatcacttg	aatagaagct	atgcatattg	gctggccgac	aaagccaagg
gacaaaagct	atggccgtta	aaatgggtccc	tctgagtcca	gggctctttc	cctggccttt
agcaccatgg	atctcttcc	tttcatccca	tcagcaatgt	ggtaccttct	tctacttgat
gatgacagct	gatacttcag	atttgcctga	ctaaggttag	aaacctgaat	cgctgtgagg
aagatgaaat	ttccatttta	cttgggtgcct	tgtgcaggga	gcacactgat	ccttccagaa
acttgtgtgt	gaaaagaggt	tgcgttttgt	cagacagact	catgggttatg	gcgagcgcac
cgacgtgatc	agagtgggca	agaggcacag	cgaactcatg	acaggctata	ccatgttgcg
gaatggggga	gtggggaacg	gtggtcagac	ctgtatgctg	cgctgggtcca	atcgcatccg
gctgacatgg	ctgagtttca	cgctgttcat	catcctcgtc	ttcttcccc	tcattgctca
ctattacctc	accactctgg	acgaggcaga	cgaggctggc	aagcgcctct	tgggccctcg
ggctggcagt	gagctctgtg	aggtaaagca	tgtccttgat	ctctgtcgga	ttcgtgagtc
tgtgagcgaa	gagcttctac	agctcgaagc	caagcggcag	gagctgaaca	gcgagattgc
caagctgaac	ctcaagattg	aagcctgtaa	gaagagcata	gagaatgcca	agcaggacct
gctgcagctc	aagaatgtca	ttagccagac	agagcactcc	tacaaggagc	tgatggccca
gaaccagccc	aaactgtccc	tgcccatccg	actgctccct	gagaaggacg	atgccggcct
tccaccccc	aaggctcactc	ggggttgccg	ccttcacaac	tgctttgatt	actctcgttg
tcctctgacg	tctggctttc	ccgtctacgt	ctatgacagt	gaccagtttg	cctttgggag
ctacctggac	cctttgggtca	agcaggcttt	tcaggctaca	gtgagagcca	acgtttatgt
tacagaaaat	gcggccatcg	cctgcctgta	tgtgggtgta	gtgggagaaa	tgcaagagcc
cactgtgctg	cggcctgccc	accttgaaaa	gcagctgttt	tctctgccac	actggaggac
agatgggcac	aaccacgtca	ttatcaacct	gtcccgggaag	tcagacacac	agaatctact
gtacaacgtc	agtacaggcc	gccatgtggc	ccagtccacc	ctctatgctg	cccagtacag
agctggcctt	gacctgggtcg	tgtcaccct	tgtccatgct	atgtctgaac	ccaacttcat
ggaaatccca	ccgcaggtgc	cagttaagcg	gaaatatctc	ttcactttcc	agggcgagaa
gatcgagtct	ctgagatcta	gccttcagga	ggcccgttcc	ttcgaggaag	agatggaggg
cgaccctccg	gccgactatg	acgatcgcat	cattgccacc	ctaaaggctg	tacaggacag

FIG. 7A-2

caagctggat	caggtgctgg	tagaattcac	ttgcaaaaac	cagccgaagc	ctagcctgcc
gactgagtgg	gcactgtgtg	gggagcggga	agaccgcctg	gagttactga	agctctccac
cttcgccttc	atcatcactc	ccggggaccc	gcgcctgctc	atttcactctg	ggtgtgccac
gcggctcttc	gaggccctgg	aggtgggggc	cgtgccgggtg	gtgctcgggg	agcaggtgca
gctcccgtac	cacgacatgc	tgcagtggaa	cgaggccgcc	ctggtgggtgc	ccaagcctcg
cgtcacagag	gtccacttcc	tgttacgaag	tctttcagac	agtgatctgt	tggccatgag
gcggcaaggc	cgctttctct	gggagacctc	cttctccacc	gcagacagta	tttttaatac
cgtgctggcc	atgattagga	ctcgaattca	gatcccagct	gctcccatcc	gggaagaggt
agcggctgag	atcccccatc	gttcaggcaa	agcagctgga	actgacccca	acatggctga
caatggggac	ctggacctgg	ggccggtaga	gacagaacca	ccctatgcct	cacctaaata
cctccgcaat	ttcactctga	ctgtcacaga	ctgttaccgt	ggctggaact	ctgccccggg
acggttccat	ctttttcccc	acacaccctt	tgatcctgtg	ttgcctctctg	aggccaaatt
cttgggctca	gggactggat	ttcggccgat	cgggtggcggg	gctgggggct	ctggcaagga
gttccaggca	gcgctcggag	gcaatgtcca	gcgggagcag	ttcacagttg	tgatgctgac
ctacgagcgg	gaggaagtgc	tcatgaactc	cctggagaga	ctcaacggcc	tccctacct
gaacaaggta	gtggtggtgt	ggaactctcc	caagctgccc	tccgaggacc	ttttgtggcc
agacattggt	gtccccatca	tggtcgtccg	tactgagaag	aacagtttga	acaatcggtt
cttgccctgg	aatgagattg	agacagaggc	catactgtcc	atcgacgatg	atgctcacct
ccgccatgat	gaaatcatgt	ttgggttttg	ggtgtggaga	gaagcacgtg	atcgcattgt
gggtttccct	ggccggtacc	atgctgtgga	catcccgcac	cagtccctggc	tctacaattc
caactactcc	tgtgagctgt	ccatggtgct	gacgggcgct	gccttctttc	acaagtatta
tgcttacctg	tattcttatg	tgatgcccc	ggccatccgg	gacatggtgg	acgagtacat
caactgtgag	gatatcgcca	tgaacttcc	tgtctcccac	atcacacgga	aaccccccat
caaggtgaca	tcaaggtgga	cttttcgatg	cccagggtgc	cctcaggccc	tgtcccatga
tgactctcat	tttcacgagc	ggcacaagtg	tatcaacttt	tttgtcaagg	tgtacggcta
tatgcctctc	ttgtacacac	agttcagggt	ggactccgtg	ctcttcaaga	cccgcctgcc
ccatgacaag	accaagtgct	tcaagttcat	ctagggcctt	gcagttctga	ggagacaatg
agcagagcga	gggggagtca	ccctcaaggt	tcccaaggtg	tcgaaggtcc	ttggggacat
ctgtcgggca	ggggccaagac	cctttgctgg	gagaggcagc	aggaagagtg	gaaagggata
gctgtctttc	attttgaaat	cagccacact	gggcctggga	tcctggtcag	agactcaggn
cgtctgcaca	gggcactgac	tgatagcgaa	cactgaggac	tgttcataag	cccaggaca

14/35

FIG. 7B-1

10 20 30 40 50 60  
cctgatcgttggttagtggcatggaggacggggctggcatttcagactgccagctgttttt

70 80 90 100 110 120  
accagccgctgcacatcacttgaatagaagctatgcatattggctggccgacaaagccaagg

130 140 150 160 170 180  
gacaaaagctatggccgttaaaatgggtccctctgagtcagggctctttccctggctttt

190 200 210 220 230 240  
agcaccatggatctcttccctttcatcccatcagcaatgtggtaccttcttctacttgat

250 260 270 280 290 300  
gatgacagctgatacttcagatttgccctgactaagggttagaaacctgaatcgctgtgagg

310 320 330 340 350 360  
aagatgaaatttccattttacttgggtgccttgtgcagggagcacactgatccttcagaa

370 380 390 400 410 420  
acttgtgtgtgaaaagaggttgcgttttgtcagacagactcatggttatggcgagcgatc

430 440 450 460 470 480  
cgacgtgatcagagtgggcaagaggcacagcgaactcatgacaggctataccatgttgcg  
M T G Y T M L R

490 500 510 520 530 540  
gaatgggggagtggggaacgggtggtcagacctgtatgctgcgctgggtccaatcgcatccg  
N G G V G N G G Q T C M L R W S N R I R

550 560 570 580 590 600  
gctgacatggctgagttttcacgctgttcacatcctcgtcttcttccccctcattgctca  
L T W L S F T L F I I L V F F P L I A H

610 620 630 640 650 660  
ctattacctcaccactctggacgaggcagacgaggctggcaagcgcatcttcggccctcg  
Y Y L T T L D E A D E A G K R I F G P R

670 680 690 700 710 720  
ggctggcagtgagctctgtgaggtaaagcatgtccttgatctctgtcggattcgtgagtc  
A G S E L C E V K H V L D L C R I R E S

TOP SECRET

15/35  
FIG. 7B-2

730 740 750 760 770 780  
tgtgagcgaagagcttctacagctcgaagccaagcggcaggagctgaacagcgagattgc  
V S E E L L Q L E A K R Q E L N S E I A

790 800 810 820 830 840  
caagctgaacctcaagattgaagcctgtaagaagagcatagagaatgccaagcaggacct  
K L N L K I E A C K K S I E N A K Q D L

850 860 870 880 890 900  
gctgcagctcaagaatgtcattagccagacagagcactcctacaaggagctgatggccca  
L Q L K N V I S Q T E H S Y K E L M A Q

910 920 930 940 950 960  
gaaccagcccaactgtccctgcccatccgactgctccctgagaaggacgatgccggcct  
N Q P K L S L P I R L L P E K D D A G L

970 980 990 1000 1010 1020  
tccaccccccaaggctcactcggggttgccgccttcacaactgctttgattactctcgttg  
P P P K V T R G C R L H N C F D Y S R C

1030 1040 1050 1060 1070 1080  
tcctctgacgtctggctttcccgctctacgtctatgacagtgaccagtttgcccttgagg  
P L T S G F P V Y V Y D S D Q F A F G S

1090 1100 1110 1120 1130 1140  
ctacctggaccctttgggtcaagcaggcttttcaggctacagtgagagccaacgtttatgt  
Y L D P L V K Q A F Q A T V R A N V Y V

1150 1160 1170 1180 1190 1200  
tacagaaaatgcggccatgcgctgctgtatgtggtgtagtgggagaaaatgcaagagcc  
T E N A A I A C L Y V V L V G E M Q E P

1210 1220 1230 1240 1250 1260  
cactgtgctgcggcctgccgaccttgaaaagcagctgttttctctgccacactggaggac  
T V L R P A D L E K Q L F S L P H W R T

1270 1280 1290 1300 1310 1320  
agatgggcacaaaccagtcattatcaacctgtcccggagtcagacacacagaatctact  
D G H N H V I I N L S R K S D T Q N L L

1330 1340 1350 1360 1370 1380  
gtacaacgtcagtacaggccgcatgtggccagtcacacctctatgctgcccagtacag  
Y N V S T G R H V A Q S T L Y A A Q Y R

1390 1400 1410 1420 1430 1440  
agctggctttgacctgggtcgtgtcacccttgccatgctatgtctgaacccaacttcat  
A G F D L V V S P L V H A M S E P N F M

1450 1460 1470 1480 1490 1500  
ggaaaatcccaccgcaggtgccagtttaagcggaaatatctcttcactttccagggcgagaa  
E I P P Q V P V K R K Y L F T F Q G E K

FILED "0260960"

FIG. 7B-3

1510 1520 1530 1540 1550 1560  
gacgcagctctctgagatctagccttcaggaggcccgcttccttcgaggaagagatggaggg  
I E S L R S S L Q E A R S F E E E M E G

1570 1580 1590 1600 1610 1620  
cgaccctccggccgactatgacgatcgcatcattgccaccctaagggctgtacaggacag  
D P P A D Y D D R I I A T L K A V Q D S

1630 1640 1650 1660 1670 1680  
caagctggatcagggtgctggtagaattcacttgcaaaaaccagccgaagcctagcctgcc  
K L D Q V L V E F T C K N Q P K P S L P

1690 1700 1710 1720 1730 1740  
gactgagtgggcactgtgtggggagcggggaagaccgcctggagttactgaagctctccac  
T E W A L C G E R E D R L E L L K L S T

1750 1760 1770 1780 1790 1800  
cttcgccctcatcatcactccccggggaccgcgcctgctcatttcattctgggtgtgccac  
F A L I I T P G D P R L L I S S G C A T

1810 1820 1830 1840 1850 1860  
g c g g g c t c t t c g a g g g c c c t g g a g g t g g g g g c c g t g c c g g t g g t g c t c g g g g a g c a g g t g c a  
R L F E A L E V G A V P V V L G E Q V Q

1870	1880	1890	1900	1910	1920
gctcccg	taccacg	acatgct	gcagtg	ggaacg	aggccgc
L	P	Y	H	D	M
L	Q	W	N	E	A
A	A	L	V	V	P
K	P	R			

1930      1940      1950      1960      1970      1980

cgtcacagaggtccacttctctgttacgaagtctttcagacagtgatctgttgggccatgag

V T E V H F L L R S L S D S D L L A M R

1990      2000      2010      2020      2030      2040

gcgggcaaggccgctttctctggggagacctacttctccaccgcagacagtatttttaatac

R O G R F L W E T Y F S T A D S I F N T

2050      2060      2070      2080      2090      2100  
cgtgctggccatgattaggactcgaattcagatcccagctgctcccatccgggaagaggt  
V L A M I R T R I O I P A A P I R E E V

2110 2120 2130 2140 2150 2160  
agcggctgagatcccccatcgttcaggcaaagcagctggaactgaccccaacatggctga  
A A E I P H R S G K A A G T D P N M A D

2170 2180 2190 2200 2210 2220  
caatggggacctgggacctggggcgccgtagagacagaaccacccctatgcctcacctaaata  
N G D L D L G P V E T E P P Y A S P K Y

2230            2240            2250            2260            2270            2280  
 cctccgcaatttcactctgactgtcacagactgttaccgtggctggaactctgccccggg  
 L R N F T L T V T D C Y R G W N S A P G



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FIG. 7B-4

2290 2300 2310 2320 2330 2340  
acggttccatctttttccccacacaccctttgatccctgtgttgccctctgaggccaaatt  
R F H L F P H T P F D P V L P S E A K F

2350 2360 2370 2380 2390 2400  
cttgggctcagggactggatttcggccgatcgggtggcggggctgggggctctggcaagga  
L G S G T G F R P I G G G A G G S G K E

2410 2420 2430 2440 2450 2460  
gttccaggcagcgcctcggaggcaatgtccagcgggagcagttcacagttgtgatgctgac  
F Q A A L G G N V Q R E Q F T V V M L T

2470 2480 2490 2500 2510 2520  
ctacgagcgggaggaagtgtcatgaactccctggagagactcaacggcctccctacct  
Y E R E E V L M N S L E R L N G L P Y L

2530 2540 2550 2560 2570 2580  
gaacaaggtagtggtggtgtggaactctcccaagctgccctcggaggaccttttgtggcc  
N K V V V V W N S P K L P S E D L L W P

2590 2600 2610 2620 2630 2640  
agacattggtgtccccatcatggtcgtccgtactgagaagaacagtttgaacaatcgggt  
D I G V P I M V V R T E K N S L N N R F

2650 2660 2670 2680 2690 2700  
cttggcctggaatgagattgagacagaggccatactgtccatcgacgatgatgctcacct  
L P W N E I E T E A I L S I D D D A H L

2710 2720 2730 2740 2750 2760  
ccgccatgatgaaatcatgtttgggttttgggtgtggagagaagcacgtgatcgattgt  
R H D E I M F G F W V W R E A R D R I V

2770 2780 2790 2800 2810 2820  
gggtttccctggccggtaccatgcgtgggacatcccgccaccagtcctggctctacaattc  
G F P G R Y H A W D I P H Q S W L Y N S

2830 2840 2850 2860 2870 2880  
caactactcctgtgagctgtccatggtgctgacgggcgctgccttctttcacaagtatta  
N Y S C E L S M V L T G A A F F H K Y Y

2890 2900 2910 2920 2930 2940  
tgccctacctgtatttcttatgtgatgccccaggccatccgggacatggtggacgagtacat  
A Y L Y S Y V M P Q A I R D M V D E Y I

2950 2960 2970 2980 2990 3000  
caactgtgaggatatcgccatgaacttccttgtctcccatcacacggaaccccccat  
N C E D I A M N F L V S H I T R K P P I

3010 3020 3030 3040 3050 3060  
caagggtgacatcaagggtggacttttcgatgcccgagggtgccctcaggccctgtcccatga  
K V T S R W T F R C P G C P Q A L S H D

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FIG. 7B-5

3070 3080 3090 3100 3110 3120  
tgactctcattttcacgagcggcacaagtgtatcaactttttgtcaaggtgtacggcta  
D S H F H E R H K C I N F F V K V Y G Y

3130 3140 3150 3160 3170 3180  
tatgcctctcttgtacacacagttcaggggtggactccgtgctcttcaagacccgcctgcc  
M P L L Y T Q F R V D S V L F K T R L P

3190 3200 3210 3220 3230 3240  
ccatgacaagaccaagtgttcaagttcatctagggccttgaggttctgaggagacaatg  
H D K T K C F K F I \*

3250 3260 3270 3280 3290 3300  
agcagagcgagggggagtcaccctcaaggttcccaaggtgtcgaaggtccttggggacat

3310 3320 3330 3340 3350 3360  
ctgtcgggcagggccaagaccctttgctgggagaggcagcaggaagagtggaaagggata

3370 3380 3390 3400 3410 3420  
gctgtctttcattttgaagtcagccacactgggcctgggatcctggtcagagactcaggn

3430 3440 3450 3460 3470  
cgctctgcacagggcactgactgatagcgaacactgaggactgttcataagcccaggaca



FIG. 8A-2

agcccaaacc	cagcctgccg	actgagtggg	cactgtgtgg	agagcgggag	gaccgcttgg
aattgctgaa	gctctccacc	ttcgccctca	tcattacccc	cggggaccct	cgcttggtta
tttctcttgg	gtgtgcaaca	cggctcttcg	aagccctgga	agtcggtgcc	gtcccgggtg
tgctggggga	gcaggtccag	cttccctacc	aggacatgct	gcagtggaac	gaggcggccc
tggtggtgcc	aaagcctcgt	gttaccgagg	ttcatttcct	gctcagaagc	ctctccgata
gtgacctcct	ggctatgagg	cggcaaggcc	gcttttctctg	ggagacttac	ttctccactg
ctgacagtat	ttttaatacc	gtgctggcta	tgattaggac	tcgcatccag	atcccagccg
ctcccatccg	ggaagaggcg	gcagctgaga	tccccaccg	ttcaggcaag	gcggctggaa
ctgaccccaa	catggctgac	aacggggacc	tggacctggg	gccagtggag	acggagccgc
cctacgcctc	acccagatac	ctccgcaatt	tcactctgac	tgtcactgac	ttttaccgca
gctggaaactg	tgctccaggg	cctttccatc	ttttccccc	cactcccttt	gaccctgtgt
tgccctcaga	ggccaaattc	ttgggctcag	ggactggctt	tcggcctatt	ggtggtggag
ctgggggttc	tggcaaggaa	tttcaggcag	cgcttgagg	caatgttccc	cgagagcagt
tcacggtggt	gatgttgact	tatgagcggg	aggaagtgct	tatgaactct	ttagagaggc
tgaatggcct	cccttacctg	aacaaggctc	tggtggtgtg	gaattctccc	aagctgccat
cagaggacct	tctgtggcct	gacattggcg	ttcccatcat	ggtgggtccgt	actgagaaga
acagtttgaa	caaccgattc	ttaccctgga	atgaaattga	gacagaggcc	atcctgtcca
ttgatgacga	tgctcacctc	cgccatgacg	aaatcatgtt	tgggttccgg	gtgtggagag
aagctcggga	ccgcatcgtg	ggcttccctg	gccgttacca	cgcattgggac	atcccccatc
agtcctgggt	ctacaactcc	aactactcct	gtgagctgtc	catggtgctg	acagggtgctg
ccttctttca	caagtattat	gcctacctgt	attcttatgt	gatgccccag	gccatccggg
acatggtgga	tgaatacatc	aactgtgagg	acattgccat	gaacttcctt	gtctcccaca
tcaactcgga	gccccccatc	aagggtgacct	caagggtggac	attccgatgc	ccaggatgcc
ctcaggccct	gtctcatgat	gactcccact	tccacgagcg	gcacaagtgc	atcaacttct
tcgtgaagg	gtacgggtac	atgcccctcc	tgtacacgca	gttcagggtg	gattctgtgc
tcttcaagac	acgectgccc	catgacaaga	ccaagtgtct	caagttcatc	taggggcagc
gcacggtctg	gggaagagga	tgagcagagg	gaggaagatg	gctcccaagg	ttcctaggca
ttgcaggacc	ttggggcacat	ctgctgggtg	gtggcccaga	gcctctgctg	gaaggggcag
caggaggagt	ggaaggaaac	cgctgccttt	atcttgaagt	cagccacact	gggcctggag
ccctgggcgg	agtccccggg	gttccccaca	cagggcactg	actgatagct	tacactgagg
actgtggcga	ctctgcagag	tcactcacac	cgttcgtacg	cccaggacag	ctggttcgtg
gtttttacat	tcaataacaa	ctattatgat	tatttaaaaa	gagaaagttt	cagatttgcc
attcaaggct	tatttatata	tatgtgtgtg	tatataaata	catgcacaca	cttgcataca



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FIG. 8B-1

10 20 30 40 50 60  
ggcgggtccctgagctggaagccggagagcaagccctggaggttcactctttcaagaagt

70 80 90 100 110 120  
cgtgtgctgaggtgtaatgctacacaagtcagaggaaggaagggcctgaaacacatggc

130 140 150 160 170 180  
ctgattgttggcaaaggcatcataagaagctggcatttatttctgttctaactattact

190 200 210 220 230 240  
gtataactgtgaatagacactatgcatatttgttggtcagcaaaaccaagaaacaagagc

250 260 270 280 290 300  
tatggcatttgaaaaagtctgtctgattccaggggtgttttctcctgggtttcatcatcagg

310 320 330 340 350 360  
tacctcctccctttcatctcagcaagaatgtggcaccttttatcgtttgataaagattaa

370 380 390 400 410 420  
ggacatgttcttttggtcaacagccagaacttaaaatctgctggaatagggtcagagacca

430 440 450 460 470 480  
tttcagctgcagctgaggaaaaatgaaatgttcattttatttgggtgccttgtctggggagc

490 500 510 520 530 540  
acactaactcttctggaaacgtgtcagtgaaacagagatcgttttgtggaatagcaaccc

550 560 570 580 590 600  
atggttatggcgagtgacccgacgtgatctggggggcaggctgcagaggactcatgacag  
M T G

610 620 630 640 650 660  
gctataccatgctgcggaatgggggcgcggggaacggaggtcagacctgcatgctgcgct  
Y T M L R N G G A G N G G Q T C M L R W

670 680 690 700 710 720  
ggccaacgcgcatccgcctcacgtgggtcagcttcacgctctttgtcatcctgggtcttct  
S N R I R L T W L S F T L F V I L V F F

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FIG. 8B-2

730 740 750 760 770 780  
tccccgtcatcgcccactattacctcaccactctggatgaggctgatgaggcaggcaagc  
P L I A H Y Y L T T L D E A D E A G K R

790 800 810 820 830 840  
ggatttttgggtccccgggtggggaacgagctgtgcgagggtgaagcacgtgctggatctgt  
I F G P R V G N E L C E V K H V L D L C

850 860 870 880 890 900  
gccgcacccgggagtcggtgagtgagagctcctgcagctggaggccaagcgccaagagc  
R I R E S V S E E L L Q L E A K R Q E L

910 920 930 940 950 960  
tgaacagcgagatcgccaagctgaatctgaagatcgaagcctgtaagaagagcattgaga  
N S E I A K L N L K I E A C K K S I E N

970 980 990 1000 1010 1020  
acgccaagcaggacctgctccagctcaagaatgtcatcagccagaccgagcattcctaca  
A K Q D L L Q L K N V I S Q T E H S Y K

1030 1040 1050 1060 1070 1080  
aggagctcatggcccagaaccagcccaagctgtccctgcccatccgactgctcccagaga  
E L M A Q N Q P K L S L P I R L L P E K

1090 1100 1110 1120 1130 1140  
aggacgatgccggcctccctccccgaaggccactcggggctgccggctacacaactgct  
D D A G L P P P K A T R G C R L H N C F

1150 1160 1170 1180 1190 1200  
ttgattattctcggttgccctctcacctctggcttcccgggtctacgtctatgacagtgacc  
D Y S R C P L T S G F P V Y V Y D S D Q

1210 1220 1230 1240 1250 1260  
agtttgtctttggcagctacctggatcccttgggtcaagcaggcttttcaggcgacagcac  
F V F G S Y L D P L V K Q A F Q A T A R

1270 1280 1290 1300 1310 1320  
gagctaacgtttatgttacagaaaatgcagacatcgccctgcctttacgtgatactagtgg  
A N V Y V T E N A D I A C L Y V I L V G

1330 1340 1350 1360 1370 1380  
gagagatgcaggagcccgtggtgctgcggcctgctgagctggagaagcagttgtattccc  
E M Q E P V V L R P A E L E K Q L Y S L

1390 1400 1410 1420 1430 1440  
tgccacactggcggacggatggacacaaccatgtcatcatcaatctgtcacgtaagtcag  
P H W R T D G H N H V I I N L S R K S D

1450 1460 1470 1480 1490 1500  
atacacagaaccttctctataacgtcagtactggccgtgccatgggtggcccagtcacac  
T Q N L L Y N V S T G R A M V A Q S T F

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FIG. 8B-3

1510 1520 1530 1540 1550 1560  
tctacactgtccagtacagacctggctttgacttggtcgtatcacccgtggtccatgccca  
Y T V Q Y R P G F D L V V S P L V H A M

1570 1580 1590 1600 1610 1620  
tgtctgagcccaacttcatggaaatcccaccacaggtgccggtgaagcggaaatatctct  
S E P N F M E I P P Q V P V K R K Y L F

1630 1640 1650 1660 1670 1680  
tcaccttccagggcgagaagattgagtctctgaggtctagccttcaggaggcccgcctct  
T F Q G E K I E S L R S S L Q E A R S F

1690 1700 1710 1720 1730 1740  
tcgaagaggaaatggagggcgaccctcccgccgactacgatgaccggatcattgccaccc  
E E E M E G D P P A D Y D D R I I A T L

1750 1760 1770 1780 1790 1800  
tgaagggcgggtgcaggacagcaagctggatcaggtcctgggtggaattcacctgcaaaaacc  
K A V Q D S K L D Q V L V E F T C K N Q

1810 1820 1830 1840 1850 1860  
agcccaaaccagcctgccgactgagtgggcactgtgtggagagcgggaggaccgcttgg  
P K P S L P T E W A L C G E R E D R L E

1870 1880 1890 1900 1910 1920  
aattgctgaagctctccaccttcgcctcatcattacccccggggaccctcgcttggtta  
L L K L S T F A L I I T P G D P R L V I

1930 1940 1950 1960 1970 1980  
tttctctgggtgtgcaacacggctcttcgaagccctggaagtcggtgccgtcccgggtgg  
S S G C A T R L F E A L E V G A V P V V

1990 2000 2010 2020 2030 2040  
tgctgggggagcaggtccagcttccctaccaggacatgctgcagtggaaacgaggcgggccc  
L G E Q V Q L P Y Q D M L Q W N E A A L

2050 2060 2070 2080 2090 2100  
tggtggtgccaagcctcgtgttaccgaggttcatttctctgctcagaagcctctccgata  
V V P K P R V T E V H F L L R S L S D S

2110 2120 2130 2140 2150 2160  
gtgacctcctggctatgaggcggcaaggccgctttctctgggagaccttacttctccactg  
D L L A M R R Q G R F L W E T Y F S T A

2170 2180 2190 2200 2210 2220  
ctgacagtatttttaataaccgtgctggctatgattaggactcgcatccagatcccagccg  
D S I F N T V L A M I R T R I Q I P A A

2230 2240 2250 2260 2270 2280  
ctcccatccgggaagaggcggcagctgagatccccaccgttcaggcaaggcggctggaa  
P I R E E A A A E I P H R S G K A A G T

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2290 2300 2310 2320 2330 2340  
ctgaccccaacatggcgtgacaacggggacctggacctggggccagtggagacggagccgcg  
D P N M A D N G D L D L G P V E T E P P

2350 2360 2370 2380 2390 2400  
cctacgcctcaccagatacctccgcaatttcactctgactgtcactgacttttacgcga  
Y A S P R Y L R N F T L T V T D F Y R S

2410 2420 2430 2440 2450 2460  
gctggaactgtgctccagggcctttccatctttttccccacactccctttgaccctgtgt  
W N C A P G P F H L F P H T P F D P V L

2470 2480 2490 2500 2510 2520  
tgccctcagaggccaaattcttgggctcagggactggccttcggcctattgggtggagg  
P S E A K F L G S G T G F R P I G G G A

2530 2540 2550 2560 2570 2580  
ctgggggttctggcaaggaatttcaggcagcgcttggaggcaatgttccccgagagcagt  
G G S G K E F Q A A L G G N V P R E Q F

2590 2600 2610 2620 2630 2640  
tcacggtggatgttgacttatgagcgggaggaagtgccttatgaactcttttagagaggc  
T V V M L T Y E R E E V L M N S L E R L

2650 2660 2670 2680 2690 2700  
tgaatggcctcccttacctgaacaaggctcggtgggtgtggaattctcccaagctgccat  
N G L P Y L N K V V V V W N S P K L P S

2710 2720 2730 2740 2750 2760  
cagaggaccttctgtggcctgacattggcgcttcccatcatgggtgggtccgtactgagaaga  
E D L L W P D I G V P I M V V R T E K N

2770 2780 2790 2800 2810 2820  
acagtttgaacaaccgattcttaccctggaatgaaattgagacagaggccatcctgtcca  
S L N N R F L P W N E I E T E A I L S I

2830 2840 2850 2860 2870 2880  
ttgatgacgatgctcacctccgccatgacgaaatcatgtttgggttccgggtgtggagag  
D D D A H L R H D E I M F G F R V W R E

2890 2900 2910 2920 2930 2940  
aagctcgggaccgcatcggtgggcttccctggccgttaccacgcatgggacatcccccatc  
A R D R I V G F P G R Y H A W D I P H Q

2950 2960 2970 2980 2990 3000  
agtccctggctctacaactccaactactcctgtgagctgtccatgggtgctgacaggtgctg  
S W L Y N S N Y S C E L S M V L T G A A

3010 3020 3030 3040 3050 3060  
ccttctttcacaagtattatgcctacctgtattcttatgtgatgccccaggccatccggg  
F F H K Y Y A Y L Y S Y V M P Q A I R D

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FIG. 8B-5

3070 3080 3090 3100 3110 3120  
acatggtggatgaatacatcaactgtgaggacattgccatgaacttccttgtctcccaca  
M V D E Y I N C E D I A M N F L V S H I

3130 3140 3150 3160 3170 3180  
tcactcgggaagcccccatcaaggtgacctcacggtggacattccgatgccaggtatgcc  
T R K P P I K V T S R W T F R C P G C P

3190 3200 3210 3220 3230 3240  
ctcagggcctgtctcatgatgactcccacttccacgagcggcacaagtgcatacaacttct  
Q A L S H D D S H F H E R H K C I N F F

3250 3260 3270 3280 3290 3300  
tcgtgaagggtgtacggctacatgccccctcctgtacacgcagttcaggggtggattctgtgc  
V K V Y G Y M P L L Y T Q F R V D S V L

3310 3320 3330 3340 3350 3360  
tcttcaagacacgcctgccccatgacaagaccaagtgttcaagttcatctaggggcagc  
F K T R L P H D K T K C F K F I \*

3370 3380 3390 3400 3410 3420  
gcacggtctggggaagaggatgagcagagggaggaagatggctcccaaggttcctaggca

3430 3440 3450 3460 3470 3480  
ttgcaggaccttgggcacatctgctggtgggtggcccagagcctctgctggaaggggcag

3490 3500 3510 3520 3530 3540  
caggaggagtgggaaggaaaccgctgcctttatcttgaagtcagccacactgggcctggag

3550 3560 3570 3580 3590 3600  
ccctgggcggagtcctccgggttccccacacagggcactgactgatagcttacactgagg

3610 3620 3630 3640 3650 3660  
actgtggcgactctgcagagtcactcacaccgttcgtacgcccaggacagctggttcgtg

3670 3680 3690 3700 3710 3720  
gtttttacattcaataacaactattatgattatttaaaaagagaaagtttcagatttgcc

3730 3740 3750 3760 3770 3780  
attcaaggcttatttatatatatgtgtgtgtatataaaatacatgcacacacttgcataca

3790 3800 3810 3820 3830 3840  
tatatatattttggctgggggagtgtagtatttgcctttctaagggagggaccgcgcaggc

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FIG. 8B-6

3850 3860 3870 3880 3890 3900  
tcctttgttctgtattcttggcggagatgggtcctggccttgtgtcactggcttatcctta

3910 3920 3930 3940 3950 3960  
aagatcatctcccatcctccccagcgccatctgtgtgcagcaaccagaaagggatgaact

3970 3980 3990 4000 4010 4020  
tggccctcttgcgggcctggacaaggtctcttcccttaccctttctgttgccagtcagcaa

4030 4040 4050 4060 4070 4080  
cctgtaactcacattctcttcccagtgaaatccctgggagcgccctgaccctgggtgggctgt

4090 4100 4110 4120 4130 4140  
tcagcttcctgctgctggggccagcgatttttgaggatttatctttaggccaggcttgcc

4150 4160 4170 4180 4190 4200  
tccgtacttatccctgctctcccatttctctcttgtttgagagagaatgaggaagcaaag

4210 4220 4230 4240 4250 4260  
agtgagaaagaataggggctgaagacgccactcccagatgggtctttctatcctgtctt

4270 4280 4290 4300 4310 4320  
ctgttgaaacacacgtgctgtgggcctcaggcgtttctgaagtgtcttttcttggttgg

4330 4340 4350 4360 4370 4380  
acaggagatcagcagcggtgcacatctgctgtggtctgaagtgggttgagggtcagcctcc

4390 4400 4410 4420 4430 4440  
tctccctagtgtagagcaagccagtgctccttcgaggaacccacccggctggccgggaagt

4450 4460 4470 4480 4490 4500  
tttacagcaaggcgcccttgccgtgggataattccttggtgaaattcaccttccccccgcct

4510 4520 4530 4540 4550 4560  
ctgtctggagccccatcctgtgttatctgtgggttttggacccctaatagtcagcttggt

4570 4580 4590 4600 4610 4620  
gtaggactccccgaggtttgggtatgtgctagaacaatgggaggcctgtgatttgctgtgta

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FIG. 8B-7

4630 4640 4650 4660 4670 4680  
agctcacatccagccttggaatctaacgggcattcacaccgagttaccactttccact

4690 4700 4710 4720 4730 4740  
ccctgcttaggattctgttccctgggctgaaactgaaataagctaatttttgggtcacg

4750 4760 4770 4780 4790 4800  
gtggcagtaggggaacctaggagggtgtgagtggcatttgtcagggatttagcccatgac

4810 4820 4830 4840 4850 4860  
gtgtttcttgaaacctactttctggaagtggagttgactctggaagtttctagcaactg

4870 4880 4890 4900 4910 4920  
aacaaaagctcaggtttgtcctgggtcatgcacatgccttaagccagttccgtcttcccta

4930 4940 4950 4960 4970 4980  
gaccttggcatcctgtgttctatttcttgggaatacgttctcctctgacctgacctgtacc

4990 5000 5010 5020 5030 5040  
acgtgggtcctcttcaagtactgttttgaagctgggctcttttgtgtagctcccaccac

5050 5060 5070 5080 5090 5100  
ctgtagggttagctcggcttaagggaactctccccattggcaaaccggaccggccgcgcg

5110 5120 5130 5140 5150 5160  
ccaggactgtgtttccaaagggttccccgcccccaacccagcatcagcctgtagctcccc

5170 5180 5190 5200 5210 5220  
tgctgaggcagtggtgttatgttcccagcagtgggggtcagacgcccttctcagaactt

5230 5240 5250 5260 5270 5280  
tctagttgccctctacctgactcctgacttgatttctttagcagtagccttcttccct

5290 5300 5310 5320 5330 5340  
cggggagccaaagagtgtggtgtgtggcgctatatattgtggctgctatttcatctggtttc

5350 5360 5370 5380 5390 5400  
ttttaatgtgaggaactcacatactgacttcagtgaggactcggtagccggggccgtctg

FILED 0360860

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FIG. 8B-8

5410 5420 5430 5440 5450 5460  
tgtggtgggaccccccttagcgggactcagtgagctggggccgtctgtgtggtggagcca

5470 5480 5490 5500 5510 5520  
gggcctctcccttagtgaggagccaggttgctggggccccgaatgtcactggtggatctaag

5530 5540 5550 5560 5570 5580  
aagggctgagtgggtctgacacaaaaacatgccgcagggagggctgtggtgcccgtgcttc

5590 5600 5610 5620 5630 5640  
caacaaggacagccctccttgaccctgaaaggaacactggcttgaaggactgcagacagg

5650 5660 5670 5680 5690 5700  
ctctgaggggacgcctcctcagcgagaggcagcaaggtggccacagtgtcactggtca

5710 5720 5730 5740 5750 5760  
ggtgcttctcaccacgggaaagccgcccagcctgtgactcgcttgagatgggaaagcggcg

5770 5780 5790 5800 5810 5820  
ccacagacccccgggtctccttggtgtgtctgtgggcccgccttgggcaccttgctcctgggt

5830 5840 5850 5860 5870 5880  
cgcaggggtgcaggagcgctcgttctctgggtggccggcttgctgctccggtttgggctg

5890 5900 5910 5920 5930 5940  
tcttaccataaacaccgtcccagggtctgcaggccactgtgagcgctgggtccctgggca

5950 5960 5970 5980 5990 6000  
gtgctcctccgtgtggactgtgcctcaggccagggtcaccagctggggtcctgtccgga

6010 6020 6030 6040 6050 6060  
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6070 6080 6090 6100 6110 6120  
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FILED 0250260

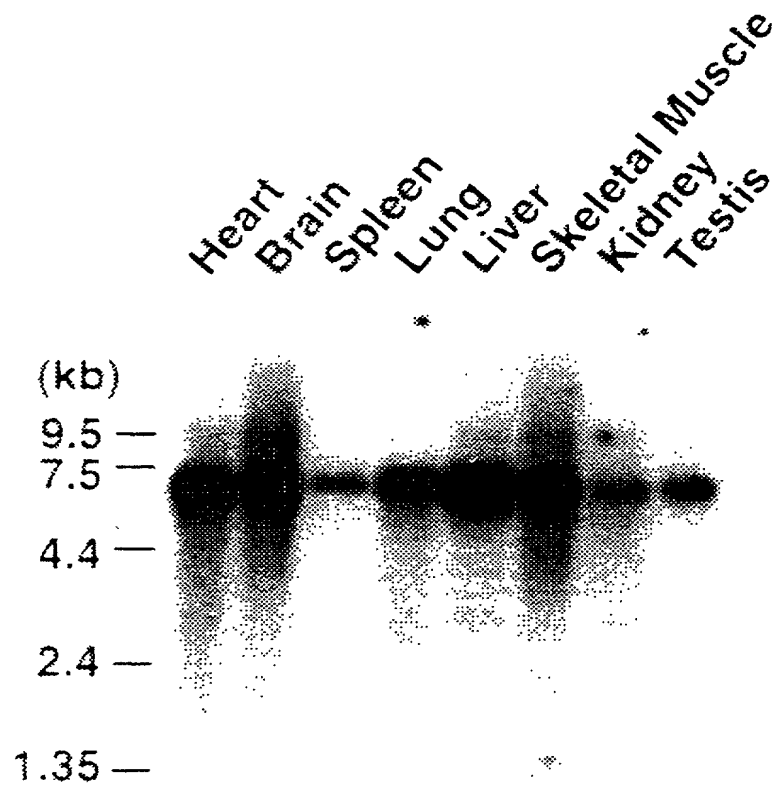
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FIG. 9A

Murine TREX	1	MTGYTMLRNGGV	GNNGGQTCMLRWSNRIRLTWLSFTLF	ILVFFPLIAHYLTTLD	DEADEA
Human TREX	1	MTGYTMLRNGGAG	NGGQTCMLRWSNRIRLTWLSFTLF	ILVFFPLIAHYLTTLD	DEADEA
Murine TREX	61	GKRIFGPRAGSEL	CEVKHVLDLCRIRESVSEELLQLEAKRQELNSE	IAKLN	NLKEACKKS
Human TREX	61	GKRIFGPRNGNEL	CEVKHVLDLCRIRESVSEELLQLEAKRQELNSE	IAKLN	NLKEACKKS
Murine TREX	121	IENAKQDLLQLKNV	ISQTEHSYKELMAQNQPKLSLPIRLLPEKDDAGLPPPKV	TRG	CRLH
Human TREX	121	IENAKQDLLQLKNV	ISQTEHSYKELMAQNQPKLSLPIRLLPEKDDAGLPPPKA	TRG	CRLH
Murine TREX	181	NCFDYSRCPLTSGFP	VYVYDSDFAFGSYLDPLVKQAFQATVRANVYVTENAA	IA	CLYVV
Human TREX	181	NCFDYSRCPLTSGFP	VYVYDSDFVFGSYLDPLVKQAFQATARANVYVTENADI	A	CLYVI
Murine TREX	241	LVGEMQEPITVLRPA	LEKQLFSLPHWRTDGHNVHVIINLSRKSDTONLLYNVSTGRH	-VAQ	
Human TREX	241	LVGEMQEPVWLRPA	ELEKQLMSLPHWRTDGHNVHVIINLSRKSDTONLLYNVSTGRAM	VAQ	
Murine TREX	300	STLYAAQYRAGFD	LVVSPLVHAMSEPNFMEIPPQVPVKRKYLF	TFQGEKIESLRSS	LQEA
Human TREX	301	STFYTVQYRPGFD	LVVSPLVHAMSEPNFMEIPPQVPVKRKYLF	TFQGEKIESLRSS	LQEA
Murine TREX	360	RSFEEEMEGDPPADY	DDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSLPTEWALCGERED		
Human TREX	361	RSFEEEMEGDPPADY	DDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSLPTEWALCGERED		
Murine TREX	420	RLELLKLSTFALIIT	PGDPRLLISSGCATRLFEALEVGAVPVVLGEQVQLPYH	DM	LQWNE
Human TREX	421	RLELLKLSTFALIIT	PGDPRLLVISSGCATRLFEALEVGAVPVVLGEQVQLPYQ	DM	LQWNE
Murine TREX	480	AALVVPKPRVTEVH	FLLRSLSDSDLLAMRRQGRFLWETYFSTADSIFNTVLAMIRTRI	QI	
Human TREX	481	AALVVPKPRVTEVH	FLLRSLSDSDLLAMRRQGRFLWETYFPTADSIFNTVLAMIRTRI	QI	
Murine TREX	540	PAAPIREEMAAEIP	HRSGKAAGTDPNMADNGDLDLGPVETEPPYASPKYL	RNFTLT	VTDC
Human TREX	541	PAAPIREEMAAEIP	HRSGKAAGTDPNMADNGDLDLGPVETEPPYASPKYL	RNFTLT	VTDF
Murine TREX	600	YRGWNSAPGRFHL	FPHTPFDVPVPSEAKFLGSGTGFRPIGGGAGGSGKEFQAALGGNV	QR	
Human TREX	601	YRSWNCAPGRFHL	FPHTPFDVPVPSEAKFLGSGTGFRPIGGGAGGSGKEFQAALGGNV	PR	
Murine TREX	660	EQFTVVMILTYERE	EVLMSLERLNGLPYLNKVVVVWNSPKLPSEDLLWPDIGVPI	MV	VRT
Human TREX	661	EQFTVVMILTYERE	EVLMSLERLNGLPYLNKVVVVWNSPKLPSEDLLWPDIGVPI	MV	VRT
Murine TREX	720	EKNSLNNRFLPWNE	IETAILSIDDDAHLRHDEIMFGFWVWREARDRIVGFPGRY	HAWDI	
Human TREX	721	EKNSLNNRFLPWNE	IETAILSIDDDAHLRHDEIMFGFRVWREARDRIVGFPGRY	HAWDI	
Murine TREX	780	PHQSWLYNSNYSC	ELSMVLTGAFFHKYYAYLYSYVMPQAIRDMVDEYINCE	DIAMN	FLV
Human TREX	781	PHQSWLYNSNYSC	ELSMVLTGAFFHKYYAYLYSYVMPQAIRDMVDEYINCE	DIAMN	FLV
Murine TREX	840	SHITRKPPPIKVTS	RWTFRCPGCPQALSHDDSHFHERHKCINFFVKVGYMPLLYTQ	FRVD	
Human TREX	841	SHITRKPPPIKVTS	RWTFRCPGCPQALSHDDSHFHERHKCINFFVKVGYMPLLYTQ	FRVD	
Murine TREX	900	SVLFXTRLPHDKT	KCFKFI		
Human TREX	901	SVLFXTRLPHDKT	KCFKFI		

FIG. 9A

FIG. 9B



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FIG. 10A

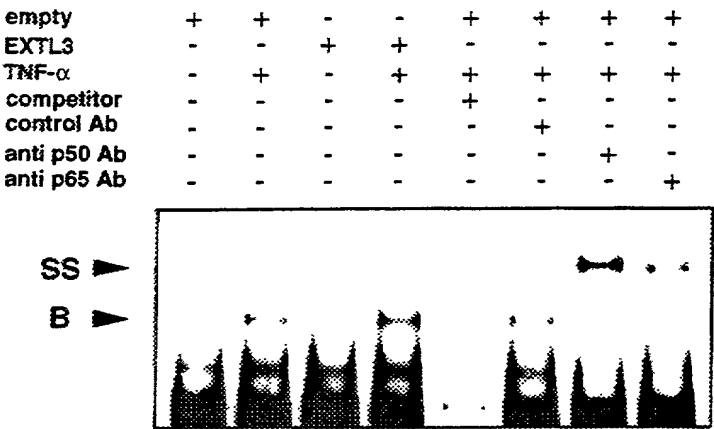


FIG. 10B

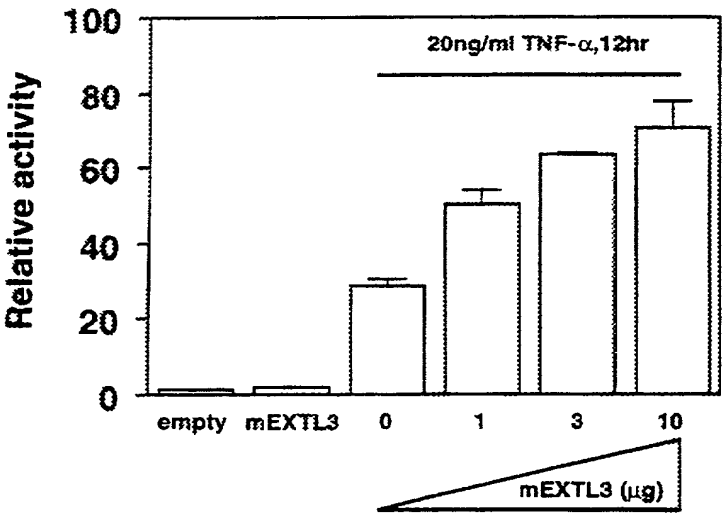


FIG. 10C

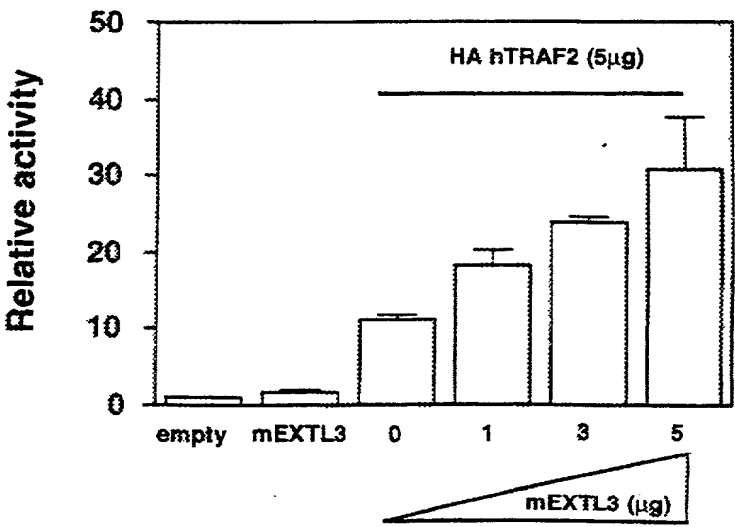




FIG. 11A

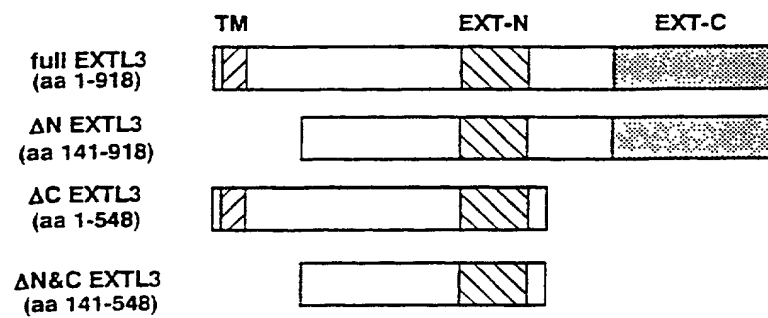


FIG. 11B

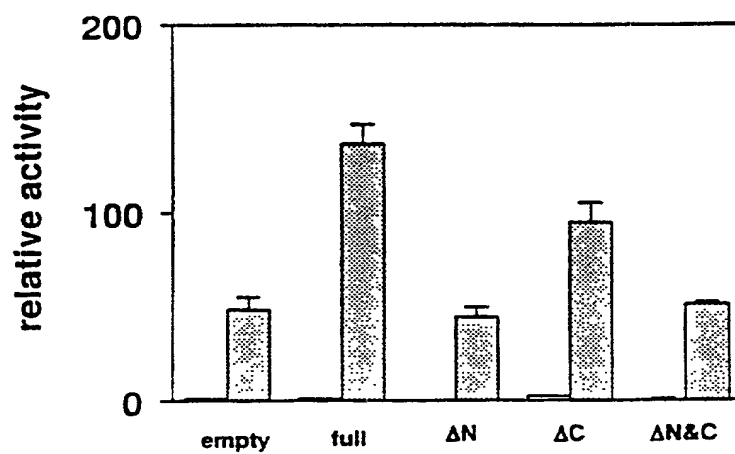


FIG. 11C

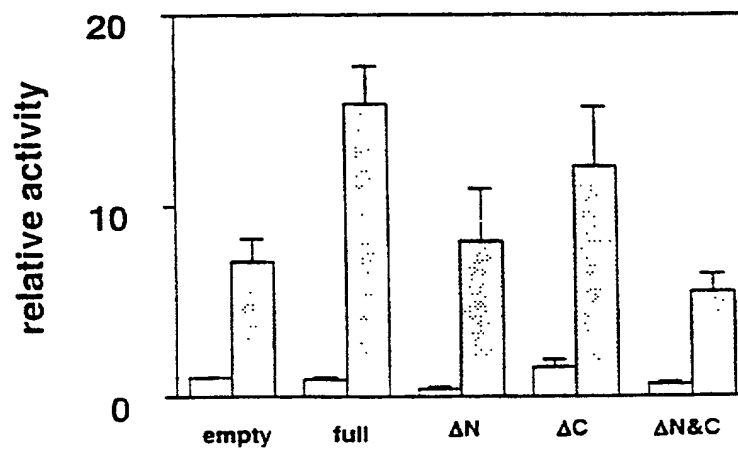


FIG. 11D-a

FIG. 11D-b

FIG. 11D-c

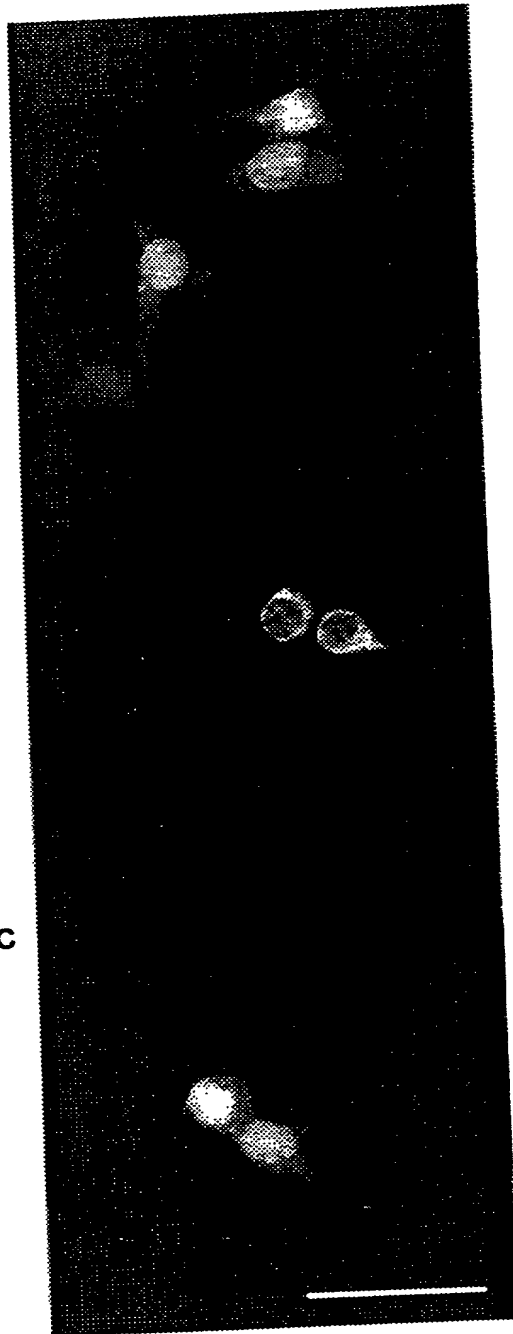


FIG. 12A

FIG. 12E

FIG. 12B

FIG. 12F

FIG. 12C

FIG. 12G

FIG. 12D

FIG. 12H

